

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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SERIAL NUMBER FILING DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NO. 07/317, 107 U2/28/89 ZIMMERMAN T 1027411

EXAMINER

TOWNSEND AND TOWNSEND STEUART STREET TOWER ONE MARKET PLAZA SAN FRANCISCO, CA 94105

OBERLEY, A
ART UNIT PAPER NUMBER

269

DATE MAILED:

06/13/90

NOTICE OF ALLOWABILITY

PART I.
1. \$\text{This communication is responsive to the Amoulnest Filed 1-17-90 + Declarations Filed May 1,9
2. DAII the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
/ herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due
course. 3. ★ The allowed claims are 1 - 25 + 28 - 68
4. The drawings filed on are acceptable.
5. Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [_] been received. [_] not been received. [_] been filed in parent application Serial No
6. 🗌 Note the attached Examiner's Amendment.
7. Note the attached Examiner Interview Summary Record, PTOL-413.
8. 😾 Note the attached Examiner's Statement of Reasons for Allowance.
9. Note the attached NOTICE OF REFERENCES CITED, PTO-892.
10. Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.
PART II.
A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS
FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application.
Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).
↑ □ Note the effect of EVANUEDIS AND DESIGN OF INTRODUCE AND INCIDENCE
1. U Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
2. APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
a. Consumer informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No.
b. The proposed drawing correction filed on has been approved by the examiner. CORRECTION IS REQUIRED.
c. Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
d. K Formal drawings are now REQUIRED.
Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.
Attachments:
_ Examiner's Amendment _ Notice of Informal Application, PTO-152
_ Examiner Interview Summary Record, PTOL- 413 Notice re Patent Drawings, PTO-948
_ Reasons for Allowance Listing of Bonded Draftsmen
_ Notice of References Cited, PTO-892 _ Other

Serial No. 317,107

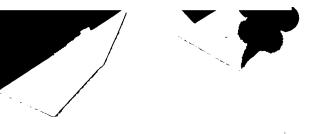
Art Unit 269

- 1. The Declarations (two) filed May 1, 1990, (two) filed January 2, 1990, and the Exhibits A-D filed January 24, 1990 filed on the above dates under 37 C.F.R. § 1.131 has been considered as effective to overcome the "virtual Environment Display System" by Fisher et al reference.
- 2. The above declaration were requested by telephone interviews.
- 3. The reference cited on the PTO-1449 received Feb. 2, 1990 have been considered. The (AU) reference teaches using a wand as a 3-D input. The (AT) reference is a pointing device to control the screen. The (AS) reference is similar to the Haney patent of record. Likewise the (AR) reference is similar to the Haney reference and suggest moving the animated object about the constraints of the environment but instead of acting upon the environment is used for collision avoidance; page 33.

None of the references of record teach emulating a part of the human on a display that is controlled in response to sensing of the human part to interactively act upon virtual objects on the screen.

4. Any inquiry concerning this communication should be directed to Alvin Oberley at telephone number (703) 557-8607.

A.OBERLEY:rf May 8, 1990 ALVIN E. OBERLEY
SUPERVISORY PATENT EXAMINER
ART UNIT 269





UNITED STATES DEPARTMENT OF COMMERCE **Patent and Trademark Office**

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CORRECTED COPY

ote attached communication from the Examiner

TOWNSEND AND TOWNSEND STEUART STREET TOWER ONE MARKET PLAZA SAN FRANCISCO, CA 94105

NOTICE OF ALLOWANCE **AND ISSUE FEE DUE**

This notice is issued in view of appli	cant's communication file	d	The second secon		
SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
07/317,107	02/28/89	066	OBERLEY, A	26 9	06/13/90
First Named Applicant ZIMMERMAN,		THOM	AS G.		
ITLE OF					

INVENTION OMPUTER DATA ENTRY AND MANIPULATION APPARATUS AND METHOD (AS AMENDED)

***************************************		ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN, TYPE	SMALL ENTITY	FEE DUE	DATE DUE
	2	1027411	340-709.00	00 F29)	, ,,,		
		102/411	.040-707.00	JU FZ3	<u>UIILII</u>	/ NO	<u>\$620.00</u>	09/13/90

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BÉ REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY Status shown above.
 - If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the Status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the Status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by a charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account. Part C of this notice should also be completed and returned.
- III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees.